



International Journal of Business, Social and Scientific Research

Volume 05 Issue 01
October-December 2016

ISSN: 2309-7892 (Online)
ISSN: 2519-5530 (Print)

Reprint



IJBSR
Agrofoundation
Dhaka, Bangladesh



<http://www.ijbsr.com>

Publication information

Published Media: **Online** (ISSN: 2309-7892) and **Print** (ISSN: 2519-5530)

First issue: **Volume 01 Issue 01, July- December 2013**

Current Issue: **Volume 05 Issue 01, October-December 2016**

Advisory Board : **Dr. A.F.M. Aktaruzzaman**, *Rtd. Director, Bangladesh Forest Research Institute, Chittagong.*
: **Kazi Golam Akhter**, *Rtd. Accounts Officer, Comptroller General of Accounts, Bangladesh (CGA), Sagunbagicha, Dhaka, Bangladesh*
: **Spencer Edwards**, *Interim Managing Director, Act Now Children's Fund, Thailand.*

Honorary Editorial Board (Not according to superiority)

Chief Editor : **Paul B McNulty**, *Emeritus Professor, Department of Biosystems Engineering, University College Dublin, Belfield, Dublin 4, Ireland.*

Associate Editor : **Dr. Mangala De Zoysa**, *Professor, Department of Agric. Economics, Dean, Faculty of Agriculture, University of Ruhuna, Mapalana, Kamburupitiya, Sri Lanka*

Executive Editor : **Dr. A.F.M. Jamal Uddin**, *Professor, Dept. of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.*

: **Dr. Fauzia Yasmin**, *Principle Scientific Officer, Bangladesh Agricultural Research Council, Farmgate, Dhaka, Bangladesh.*

Managing Editor : **Kazi Noor-E-Alam Jewel**, *Vice president, Agrofoundation, Bangladesh*

Assistant Editor : **Taslina Jahan**, *Financial Manager, IJBSSR, Dhaka, Bangladesh*

Editorial Member(s) : **Dr. Md. Main Uddin Miah**, *Professor, Department of Agroforestry and Environment, Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur, Bangladesh.*

: **Jiban Shrestha**, *Nepal Agricultural Research Council, National Maize Research Program, Rampur, Chitwan, Nepal.*

: **Dr. Sadia Afrin**, *Scientific Officer, Industrial Microbiology Division, IFST, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhanmondi, Dhaka-1205, Bangladesh.*

: **Md. Wahidur Rahman**, *Lecturer, Department of Marketing, University of Barisal, Barisal, Bangladesh.*

Print : **Md. Mohiuddin**, *Circulation Executive, IJBSSR, Dhaka, Bangladesh*

Web : **Eng. Mallik Md. Sayeek Ahsan**, *InnovaSoft, Uttara, Dhaka, Bangladesh*

Publication Charges : **Only Online:** Tk. 3000/- for Bangladeshi and \$100 USD for other the overseers

Online+Hard copy: Tk. 5000/- for Bangladeshi and \$150 USD for other the overseers

Call for Paper(s)

International Journal of Business, Social and Scientific Research (IJBSSR) is an open access, double blind peer reviewed journal that invites outstanding applied and basic research articles in all the fields of Social Sciences, Business and Scientific research. The key objective of this journal is to promote interdisciplinary research from various regions of the globe. IJBSSR is a scientific publication of **Agrofoundation** (a nonprofit NGO) and published based on print (ISSN: 2519-5530) and online (ISSN: 2309-7892). We will now be uploading original research papers as well as Short Communications, Review articles which have not been published by any other publisher. Anyone can submit their research papers through **Online Submission** or e-mail to submit@ijbssr.com, in any time and that will be considered for publication for next available issue.

IJBSSR editorial board makes an objective and quick decision on each manuscript. Following acceptance, a paper would be published in the next available issue.

Declaration

The principal author must declare the originality of the research activities as well as the manuscript (partial/full) in clear statement that the article(s) have not yet been published or submitted for publication elsewhere. The declaration should be made (by signature) in prescribed form. In case of **Online Submission** declaration may be consider as default.





International Journal of Business, Social and Scientific Research

Volume 05 Issue 01
October-December 2016

ISSN: 2309-7892 (Online)
ISSN: 2519-5530 (Print)

Editor in-Chief

Paul B McNulty

Emeritus Professor, Department of Biosystems Engineering
University College Dublin, Belfield, Dublin 4, Ireland.

Managing Editor

Kazi Noor-E-Alam Jewel

IJBSSR, Dhaka, Bangladesh and
Vice president, Agrofoundation, Bangladesh

Published by

IJBSSR, Dhaka, Bangladesh

Subscription rate	Annual Subscription (Three issues)	
Individuals:	Tk. 300.00 for Bangladesh/issue	US \$ 15 for other countries/issue
Institutional:	Tk. 350 for Bangladesh/issue	US \$ 20 for other countries/issue

Career Opportunity

Be an "Honorary Reviewer" and "Journal Delegate(s)" to ensure quality publications for IJBSSR. The position "Commission Agent" is open for all. Please see career page at ijbssr.com

Call for Ad(s)

IJBSSR inviting advertisements for upcoming Special issues. We think that your organization is one of the best components for us. So we are seeking your whole-hearted support and will be obliged if you could provide us the advertisement of your renowned company as per the following rate chart.

Advertisement Rate Chart (4 Color)		
Space	Amount in BDT	Outside Bangladesh
Front cover (A4 sized full page inner side)	30000/-	\$400.00
Back cover (A4 sized full page inner side)	28000/-	\$350.00
Back cover (Bottom of the page 1.5×18 cm)	32000/-	\$450.00
Tag (2.5×6.5 cm) with ribbon	35000/-	\$500.00
Article Sponsorship* (each article)	15000/-	\$200.00

*All the pages of an article will convey 1×2 cm logo and/or key word in the top right side in each of the page of the sponsored company/product in black and white as Article sponsorship.

Printed at

IJBSSR publication



<http://www.ijbssr.com>



CONTENTS

Wasim Sabbir, Tania Sultana, Md. Nuruzzaman Khan, Mukta Das and S. M. Bazlur Rahaman - PRODUCTION PERFORMANCE OF TIGER SHRIMP (<i>Penaeus monodon</i>) IN SEMI-INTENSIVE FRESHWATER POND	Agricultural Science	1-6
Chidratul Muntaha, Quock San, Mohammad Mosharraf Hossain - QUALITY PARAMETERS OF TUBE-WELL WATER OF RAMU UPAZILA IN COX'S BAZAR DISTRICT OF BANGLADESH	Environmental Science	7-11
S. K. Biswas, M. Z. Tareq, M. D. H. Sarker, M. Moniruzzaman and A. B. M. Z. Hoque - SALT TOLERANCE POTENTIALS IN DIFFERENT <i>BRASSICA</i> LINES AT SEEDLING STAGE	Agricultural Science	12-21
Irfat Alam, Md. Mizanur Rahman, HasnunWara Khondker and Farzana Siddiqua - WAY-FINDING IN INTERIOR PUBLIC PLACE (Shopping mall) IN BANGLADESH: CURRENT SCENARIO AND SCOPE	Urban and Regional Planning	22-31
Shah Moinur Rahman, Ken-Ichi Kakuda, Yuka Sasaki and Ho Ando - SHALLOW WATER MANAGEMENT AND PLANT SPACING ON ROOT PHYSIOLOGICAL ACTIVITIES OF RICE	Agricultural Science	32-40
M. M. Rahman, M. Sahadat, Sk. Rahul, M. Z. K. Roni and AFM Jamal Uddin - EFFECT OF PRE-HARVEST B AND ZN SPRAY ON YIELD AND QUALITY OF STRAWBERRY	Agricultural Science	41-46
S, Khandoker, T. H. Miah, M. Khatun, N. Akhter and N. D. Kudu - SOCIOECONOMIC STUDY OF COMMERCIAL FLORICULTURE IN SELECTED AREAS OF BANGLADESH	Agricultural Science	47-53
Md. Nuruzzaman Khan, Shamima Sultana, Wasim Sabbir, Mukta Das and K. M. Shamir Azam Saikat - BIOLOGICAL ASPECTS OF GUCHI BAIM (<i>Mastacembelus pancalus</i>) IN KHULNA REGION OF BANGLADESH	Agricultural Science	54-59
Nasima Akhter, Md. Moinul Haque, Asim Kumar Bhadra, Mohammad Mohidur Rahman and Md. Mahfuzar Rahman - MORPHOLOGICAL FEATURES AND DRY MATTER PARTITIONING OF THREE BOTTLE GOURD (<i>Lagenaria vulgaris</i> L.) GENOTYPES UNDER DIFFERENT LIGHT LEVELS	Agricultural Science	60-66
Seatara Khatun, G.R.M. Astaq Mohal Khan, Md. Lutfor Rahman, Md. Jahidul Islam, Md. Farid Ahmed, Md. Ruhul Amin, Md. Saifullahel Ali Azom - EXTRACTION OF NATURAL DYES AND THEIR UTILIZATION ON SILK AND COTTON FIBRES	Chemistry	67-70
F. Yasmin and S. M. Khorshed Alam - CROP-RESEARCH GENERATED TECHNOLOGY AND ITS IMPACT ON CROP-SECTOR IN BANGLADESH	Agricultural Science	71-78
Md. Rajib Ahsan, Mohammad Zohirul Islam, Md. Mahfuzar Rahman and Md. Abdullahil Baque - INTEGRATED USE OF PHOSPHATE SOLUBILIZING BACTERIA, BRADYRHIZOBIUM AND P ON GROWTH AND YIELD BY SOYBEAN	Agricultural Science	79-84
L. Pervin, F. Yasmin and R. Begum - IMPACT OF DIFFERENT TENURE SYSTEMS ON RESOURCE USE EFFICIENCY OF HYV BORO RICE PRODUCTION IN BANGLADESH	Agricultural Science	85-90
K. Parvin, M. Hasanuzzaman and M. Fujita - SUPPLEMENTAL ZINC MITIGATES SALT-INDUCED DAMAGES IN TOMATO (<i>Lycopersicon esculentum</i> L.)	Agricultural Science	91-97
P. R. Sannyashi, S. Haque and F. Yasmin - WORKING PATTERN AND LOCATION WISE WAGE GAP AND ITS IMPACT ON INCOME GENERATION BY FEMALE LABOURER OF BANGLADESH	Agricultural Science	98-102
Md. Masudur Rahman - <i>Ex Situ</i> CONSERVATION OF <i>Rhizophora mucronata</i> Lam. IN THE SUNDARBAN MANGROVE FOREST OF BANGLADESH	Forestry	103-110

Terms and Conditions

1. The Author will have to declare that the submitted paper is their original/review/short communication work. The Paper has not been published previously in the same/any other journal and is not under consideration for publication elsewhere. The Authors have to take full responsibility for the content of their Paper.
2. The Authors and IJBSSR agree that the journal publish only reviewed and accepted Papers after careful review and technical formatting. IJBSSR reserves the right to reject if the Paper does not conform to the Guidelines for Paper Submission.
3. IJBSSR is empowered to make such editorial changes as necessary to make the article suitable for publication and this would be done in consultation with the Author.
4. If a paper has been written by several authors, a statement that the Paper has been read and approved by all Authors must be submitted.
5. On final acceptance, the Author will have to transfer all Copyright of the Paper to IJBSSR.
6. The Authors cannot upload the published paper to *Academia.edu*, *ResearchGate* or any other web site except share the web link. Otherwise the agreement will terminate automatically.

Paper Formatting

Language

Papers must be submitted in English, Use common standards of American grammar

Text length

Full Paper: Maximum 4,000 words and Short Communication Paper: Maximum 2,000 words

Abstract

Abstract not more than 150–200 words, Formulas, Abbreviations and References should be avoided Keywords (Maximum 5 keywords) should be in Font size 10, Justify

Main text

Font Size: 10, Justify, Times New Roman, Spacing: Left: 6, Right: 6, Line Spacing: 1 pt

Major headings: (Font size 10), boldface, Title Case, **Spacing:** Left: 6, Right: 6, **Line**

Spacing: 1pt **Sub-headings:** (Font size 10), boldface, Title Case, Italic

Sub-subheadings: (Font size 10), Title Case, Italic

Tables

Captions: Font size 10, bold, justify, **Spacing:** Left: 6, Right: 6, **Line Spacing:** 1 pt)

If tables need to extend over to a second page, the continuation of the table should be preceded by a caption, e.g. Table 2. (Continued)

Footnotes should be avoided. When their use is absolutely necessary, it should be placed below the final row of the table (Size 8, Times New Roman, **Spacing:** Left: 0, Right: 0, **Line Spacing:** 1 pt))

Vertical rules should not be used

Illustrations and Photographs

Captions: Font size 10, bold, justify, **Spacing:** Left: 6, Right: 6, **Line Spacing:** 1 pt) Acknowledge sources of published figures, if any

References

Font size: 10, Times New Roman, **Spacing:** Left: 6, Right: 6, **Line Spacing:** 1 pt, Hanging),

Authors are responsible for the accuracy of their references. List should be arranged alphabetically according to the surname of the first author and set out as in the following examples:

Journal Article

Carney, J. (1988) 'Struggles Over Crop Rights and Labor within Contract Farming Households in a Gumbian Irrigated Rice Project', *Journal of Peasant Studies*, 15(3): 334 – 445

Book

Fernandes, W. and Tandon, R. (1981) *Participatory Research and Evaluation*. New Delhi : Indian Social Science Institute.

Conference Paper

Oakley, P. (1990) 'The Monitoring and Evaluation of Popular Participation in Development'. Paper presented at the conference of the European Association of Development Research and Training Institute, Oslo, Norway (June)

Unpublished Work

Fox, J (1986) The Political Dynamics of Reform: The Case of the Mexican Food System, 1980 – 82 'unpublished Ph.D dissertation, Political Science Department, Massachusetts Institute of Technology (September).

Electronic publications may be cited in the normal way with the internet address instead of the journal or book details.



Editor's Note

I am delighted to introduce and welcome the *International Journal of Business, Social and Scientific Research* (IJBSSR), a multidisciplinary peer-reviewed online journal that publishes rigorous theoretical and advanced empirical research in Business, Social and Scientific Research. The key objective of this journal is promoting interdisciplinary collaboration across various regions of the globe. IJBSSR is published in print form (ISSN: 2519-5530) and online (ISSN: 2309-7892). Articles are accepted for publication after double blind peer review. The final evaluation of the revised version is made available at ijbssr.com as soon as it is published. All material published in the IJBSSR can be viewed and downloaded for free at the journal's website.



Our online journal has been successful: we have seen a steady increase in readership, article submissions, and citations to our published articles. Our reputation and visibility in the academic community continues to broaden, and our honorary editorial board constantly reassesses and revises the editorial process to ensure the most efficient and satisfying experience for both authors and staff. The journal aspires to be vibrant, engaging and accessible, and at the same time integrative and challenging. All submitted papers, however, will be subject to the journal's double-blind review process.

On request, we have taken an initiative to upload original research papers which have not been published elsewhere. Interested researchers may also opt to have their works printed in the quarterly research journal soon to be launched. Papers are also invited for publication in our online/printed journal.



Paul B McNulty
*Honorary Chief Editor IJBSSR
and Emeritus Professor
School of Biosystems Engineering
University College Dublin
Belfield, Dublin 4, Ireland.*

